CLAIMS:

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A disc drive mechanism (100) comprising:
 an actuator (113) for controlling a substantially radial movement of a lens
 (109) in response to an actuator control signal;

means (115) for generating the actuator control signal;

means (115) for supplying the actuator control signal to the actuator (113); means (119) for determining an amplitude variation characteristic of the actuator control signal, the amplitude variation characteristic being indicative of a variation of the actuator control signal with time;

means (125) for determining an activation time for a position change actuator

signal component in response to the amplitude variation characteristic; and

means (123, 115) for including the position change actuator signal component
in the actuator control signal in response to the activation time.

- 2. A disc drive mechanism as claimed in claim 1 wherein the means (125) for determining the activation time is operable to determine the activation time as a time when the actuator control signal has an absolute value below a threshold.
- A disc drive mechanism as claimed in claim 1 further comprising means for determining a zero-crossing of the actuator control signal and wherein the means (125) for determining the activation time is operable to determine the activation time in response to the zero crossing.
 - 4. A disc drive mechanism as claimed in claim 1 wherein the means (125) for determining the activation time is operable to determine the activation time as a time when the actuator control signal has an amplitude of an opposite polarity with respect to a polarity of the position change actuator signal component.
 - 5. A disc drive mechanism as claimed in claim 4 wherein the means (125) for determining the activation time is further operable to determine the activation time as a time

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resulting in a time interval associated with the position change signal for which the minimum absolute amplitude of the actuator control signal within the time interval is substantially maximized.

- 6. A disc drive mechanism as claimed in claim 4 wherein the means (125) for determining the activation time is further operable to determine the activation time as a time for which the absolute amplitude is above a threshold.
- A disc drive mechanism as claimed in claim 6 further comprising means for
 determining the threshold in response to a signal amplitude of the position change actuator signal component.
 - 8. A disc drive mechanism as claimed in claim 6 further comprising means for dynamically determining the threshold in response to at least one measured characteristic of the actuator control signal.

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- 9. A disc drive mechanism as claimed in claim 1 wherein the amplitude variation characteristic comprises an amplitude variation characteristic of a tracking actuator signal component of the actuator control signal.
- 10. A disc drive mechanism as claimed in claim 1 further comprising means for determining a position change size and wherein the means (125) for determining the activation time is operable to determine the activation time as a time when the actuator control signal has an absolute value below a threshold if the position change size is below a threshold, and to determine the activation time as a time when the actuator control signal has an amplitude of an opposite polarity with respect to a polarity of the position change signals if the position change size is above the threshold.
- 11. A disc drive mechanism as claimed in claim 1 wherein the means (125) for determining the activation time is operable to determine a first interval in which the actuator control signal has a first polarity and a second interval in which the actuator control signal has a second opposite polarity and to determine a first activation time for an acceleration position change actuator signal component in the first interval and a second activation time for a deceleration position change actuator signal component in the second interval.

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12. A disc drive mechanism as claimed in claim 1 wherein the amplitude variation characteristic is indicative of a variation of the actuator control signal with a rotation angle of a disc.

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- 13. A disc drive mechanism as claimed in claim 1 wherein the position change actuator signal component is an acceleration position change actuator signal component.
- 14. A disc drive mechanism as claimed in claim 1 wherein the position change actuator signal component is a deceleration position change actuator signal component.
 - 15. A disc drive mechanism as claimed in claim 1 wherein the actuator control signal is a voltage signal.
- 16. A disc drive mechanism as claimed in claim 1 wherein the actuator control signal is a current signal.
 - 17. A method of operation for a disc drive mechanism (100) comprising an actuator (113) for controlling a substantially radial movement of a lens (109) in response to an actuator control signal; the method comprising the steps of:

generating the actuator control signal;

supplying the actuator control signal to the actuator;

determining an amplitude variation characteristic of the actuator control signal, the amplitude variation characteristic being indicative of a variation of the actuator control signal with time;

determining an activation time for a position change actuator signal component in response to the amplitude variation characteristic; and

including the position change actuator signal component in the actuator control signal in response to the activation time.